

20070401.ba v04\_n035.bam.20070401

>From ???@??? Sun Apr 1 15:41:42 2007 -0500  
Date: Sun, 1 Apr 2007 20:40:44 GMT  
From: Old Tube Radios <boatanchors@theporch.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: BOATANCHORS digest 4035  
Message-Id: <20070401204049.CDB76187B12@srvr1.theporch.com>

BOATANCHORS Digest 4035

Topics covered in this issue include:

- 1) R-388 S Meter Problem  
by Mike Hardie <mike46@shaw.ca>
- 2) Re: Mcelroy Oscillatone  
by stuck in 50s <polepeeg@aa4rm.ba-watch.org>
- 3) RE: Mcelroy Oscillatone  
by "Ed Sieb" <esieb@sympatico.ca>
- 4) Re: How Much Vacuum in "Vacuum Tubes?"  
by Jim Hill <Jim2\_w6ivw@cox.net>
- 5) Re: How Much Vacuum in "Vacuum Tubes?"  
by "David Stinson" <arc5@ix.netcom.com>
- 6) AC Plug Assistance.  
by Ben Hall <kd5byb@bellsouth.net>
- 7) FS: Unusual RME Receiver  
by John Poulton <jp@cs.unc.edu>
- 8) RE: FS: Unusual RME Receiver (fwd)  
by John Poulton <jp@cs.unc.edu>
- 9) Re: National NC-240D  
by "JAMES HANLON" <knjhanlon@msn.com>
- 10) Re: National NC-240D  
by Chuck McGregor <cbmcg@comcast.net>
- 11) Re: National NC-240D  
by "JAMES HANLON" <knjhanlon@msn.com>
- 12) RE: FS: Unusual RME Receiver  
by "Art Lebermann" <artleb@earthlink.net>
- 13) RE: FS: Unusual RME Receiver  
by Scott Robinson <spr@earthlink.net>
- 14) RE: FS: Unusual RME Receiver  
by john <johnmb@nc.rr.com>
- 15) Spectrum Display Unit  
by "Edward J White" <wa3bzt@verizon.net>
- 16) RE: How Much Vacuum in "Vacuum Tubes?"  
by "Gerry" <w1id@comcast.net>
- 17) RE: FS: Unusual RME Receiver  
by "Art Lebermann" <artleb@earthlink.net>

-----  
Date: Sat, 31 Mar 2007 19:20:45 -0800  
From: Mike Hardie <mike46@shaw.ca>  
Subject: R-388 S Meter Problem  
To: Old Tube Radios <boatanchors@theporch.com>  
Message-id: <007c01c7740c\$bc759300\$6701a8c0@vn.shawcable.net>  
MIME-version: 1.0  
Content-type: multipart/alternative;  
boundary="-----=\_NextPart\_000\_0079\_01C773C9.AE279980"

This is a multi-part message in MIME format.

-----=\_NextPart\_000\_0079\_01C773C9.AE279980  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

After bringing up an R-388 following a lengthy storage the S meter won't =  
zero with the radio on, no signal, and the meter switch in the input =  
position. The adjustment pot has an effect but won't bring the meter =  
down to zero. Before the trouble shooting phase begins can anyone offer =  
advice?

Mike VE7MMH  
-----=\_NextPart\_000\_0079\_01C773C9.AE279980  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

\* \* \* \* \*  
\* ---REMAINDER OF MESSAGE TRUNCATED--- \*  
\* This post contains a forbidden message format \*  
\* (such as an attached file, a v-card, HTML formatting) \*  
\* Mail Lists at theporch.com only accept PLAIN TEXT \*  
\* If your postings display this message your mail program \*  
\* is not set to send PLAIN TEXT ONLY and needs adjusting \*  
\* \* \* \* \*

-----=\_NextPart\_000\_0079\_01C773C9.AE279980--

-----  
Date: Sun, 1 Apr 2007 12:24:44 -0400 (EDT)  
From: stuck in 50s <polepeeg@aaa4rm.ba-watch.org>  
Message-Id: <200704011624.131G0iHU022654@fracas.netboobie.org>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Mcelroy Oscillatone

Dave if Oscillatone's a 110vac plug-in, tube's probably a  
117L7 or one of their kin. Use ur tube hbk & match socket

connections. Once ID'd, put Oscillatone under ur pillow & the passover bunny may bring you one.

Everybody sitting down today to a traditional hearts of palm salad?

-----  
From: "Ed Sieb" <esieb@sympatico.ca>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: Mcelroy Oscillatone  
Date: Sun, 1 Apr 2007 13:56:20 -0400  
Message-ID: <NIBBKNOFPNLAGHLELMPLGEKFLLAA.esieb@sympatico.ca>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I make a delicious tomato and hearts of palm salad.  
I use Cherry tomatoes, (One container) sliced in half. A can of Palm hearts medallions, sliced in half. A teaspoon of "Italian spices", a teaspoon of Parsley, a 1/4 teaspoon of dill, a half-teaspoon of ground black pepper, half cup light Olive oil, and a mixture of 2 oz. Balsamic vinegar and a half cup of red wine vinegar. Mix thoroughly, and enjoy!

Ed, VA3ES

-----  
Marty wrote:  
Everybody sitting down today to a traditional hearts of palm salad?

-----  
Message-Id: <7.0.1.0.2.20070401101434.058c25d8@cox.net>  
Date: Sun, 01 Apr 2007 10:33:23 -0700  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Jim Hill <Jim2\_w6ivw@cox.net>  
Subject: Re: How Much Vacuum in "Vacuum Tubes?"  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

I used a mercury diffusion pump many years ago when we were setting up an overseas standards lab. It was an interesting concept - mercury was heated and jets of mercury vapor "blew" downward, taking molecules of the gas being removed with them. Liquid nitrogen was used to condense the mercury vapor, and a mechanical "roughing" pump removed the gas. That's a pretty poor description, so I Googled diffusion pumps, and

<http://www.2spi.com/catalog/vac/santovac-5-diffusion-pump-fluid-technical-paper.html>

gives a much better description. Notice diffusion pumps are still around; they just don't use mercury any more.

Since there are few gas molecules at high vacuums, large diameter tubing is used. I wonder how vacuum tubes are connected to the vacuum system, particularly in automated production lines.

Jim

At 12:01 PM 3/28/2007, you wrote:

>"Vacuum" is a relative term.

>Just how much "vacuum" does one need to make a vacuum tube work?

>Our valves can't be at perfect vacuum; no way that thin glass

>would hold up. So is it possible for an amatuer to create a

>vacuum pump and chamber good enough for tubes?

>Kinda thinking about how to recover rare or expensive

>tubes that have gone gassy or low-em.

>I have engraved-base, big-globe types 80 and 50

>that would look soooo good in a classic '20s homebrew,

>if only.....

-----  
Message-ID: <005501c77484\$d7b336e0\$fa01fea9@Default>

From: "David Stinson" <arc5@ix.netcom.com>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: How Much Vacuum in "Vacuum Tubes?"

Date: Sun, 1 Apr 2007 12:40:29 -0500

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

How about this for a jake-leg vacuum pump?

Heavy tube from the stem of your home-brew vacuum tube to the top of a sealed 50-gallon drum filled to the brim with water. Open the plug at the bottom of drum and start pumping the water out. Gas in the tube is dispersed in the empty space left by the water being removed. That's a lot of space for a little bit of gas. Seal the stem with a torch. Should be quite a vacuum. Think the glass will implode?

-----  
Message-ID: <460FF058.10000008@bellsouth.net>

Date: Sun, 01 Apr 2007 12:48:08 -0500

From: Ben Hall <kd5byb@bellsouth.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: AC Plug Assistance.  
Content-Type: text/plain; charset=ISO-8859-1; format=flowed  
Content-Transfer-Encoding: 7bit

Good afternoon all,

I have a piece of late-BA era that uses a recessed, standard-looking three-prong AC plug (male prongs).

It's similar to tube-type Tek scopes that used a protruding 3-prong, standard AC plug that would take any standard extension cord, but it's recessed into the case a bit, with only the ground prong sticking out of the recessed area.

A Cooper-brand NEMA 5-15R receptacle has an outside diameter that's just barely too large, measuring 1.345" in diameter. The recess on the piece of test gear is 1.300" in diameter.

I hacked up an extension cord with a pocket-knife to make it fit, but it doesn't fit well and I don't feel good about this.

Looking thru the standard NEMA listings, it would seem that a NEMA 5-15R is the right choice - IE: there isn't anything smaller than 5-15R.

Any thoughts on what the right matching receptacle is? I've ruled out replacing it with a computer-standard IEC jack, as the hole in the equipment is just too large and it would look ugly.

thanks and 73,  
ben

--

Thanks and 73,  
Ben, KD5BYB

-----  
Date: Sun, 1 Apr 2007 14:27:05 -0400 (EDT)  
From: John Poulton <jp@cs.unc.edu>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: FS: Unusual RME Receiver  
Message-ID: <Pine.LNX.4.64.0704011417150.32541@swan.cs.unc.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have an unusual RME receiver for sale. It's a very wide radio, perhaps 30" or so, and it appears to be

a repackaging of a standard RME radio along with a preselector. There are pictures of the rig at:

[http://www.jptronics.org/RME\\_receiver](http://www.jptronics.org/RME_receiver)

The pix are large-ish, so be patient.

If you're interested in adding the radio to your collection, send me mail off-list. Would like to get \$300 + shipping for it (what I have in it). Delivery to Dayton..

I'd be interested in any information you might have about this rig as well.

73, John K4OZY

--

-----  
Date: Sun, 1 Apr 2007 14:50:06 -0400 (EDT)  
From: John Poulton <jp@cs.unc.edu>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: FS: Unusual RME Receiver (fwd)  
Message-ID: <Pine.LNX.4.64.0704011448390.1021@swan.cs.unc.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

ARgh.. Sorry about getting the link to the pix wrong. That should be:

[http://www.jptronics.org/pix/RME\\_receiver](http://www.jptronics.org/pix/RME_receiver)

73 de John

----- Forwarded message -----  
Date: Sun, 1 Apr 2007 14:27:05 -0400 (EDT)  
From: John Poulton <jp@cs.unc.edu>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: FS: Unusual RME Receiver

I have an unusual RME receiver for sale. It's a ....

-----  
Message-ID: <BAY110-DAV17B4CA74B3F71BE91D3333A0610@phx.gbl>  
From: "JAMES HANLON" <knjhanlon@msn.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: "boatanchors" <boatanchors@theporch.com>  
Subject: Re: National NC-240D

Date: Sun, 1 Apr 2007 12:58:45 -0600  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="-----=\_NextPart\_000\_0060\_01C7745D.7B524C00"

This is a multi-part message in MIME format.

-----=\_NextPart\_000\_0060\_01C7745D.7B524C00  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

John,

When you acquire the NC-240D, try to get its speaker with it. I'm pretty sure that the NC-240D is like the other members of the NC-100 family in that it uses an electrodynamic speaker rather than a permanent magnet speaker and the speaker field coil is used as a choke in the power supply filter. You can always do a work-around, but it's a little easier if you have the original speaker.

Jim, w8KGI=20

----- Original Message -----=20  
From: John Sehring<mailto:jsehring@siouxvalley.net>=20  
To: Old Tube Radios<mailto:boatanchors@theporch.com>=20  
Sent: Thursday, March 29, 2007 12:12 PM  
Subject: National NC-240D

Thanks to all who the time to repond to my questions about the National NC-240-D & who provided specific info, e.g. scans of ham radio mag articles.

I have decided to buy it even tho I'm attempting--being forced, really, by having less space--to downsize. I try to use "conservation of mass" to keep the volume of BA's at least constant & no greater. In this case it worked 'cause I just sold my Halliscratchers SX-100.

I was sorry to part with this radio after 22 years. But, I need an rx with a 455 KHz IF output for my panadaptor, a Heath SB-620 (and Central Electronics Model B "Slicer"). Gotta love that orange CRT screen on the -620. And I will sell my NC-125 when I'm happy with the NC-240's performance.

It'll be fun getting in the mechanicals of the 240's band change =  
apparatus.

I will keep you all posted.

--John Sehring WB0EQ/VE6

-----=\_NextPart\_000\_0060\_01C7745D.7B524C00  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

```
* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
*      This post contains a forbidden message format      *
*      (such as an attached file, a v-card, HTML formatting) *
*      Mail Lists at theporch.com only accept PLAIN TEXT      *
*      If your postings display this message your mail program *
*      is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *
```

-----=\_NextPart\_000\_0060\_01C7745D.7B524C00--

-----  
Date: Sun, 01 Apr 2007 12:12:30 -0700  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Chuck McGregor <cbmcg@comcast.net>  
Subject: Re: National NC-240D  
Cc: "boatanchors" <boatanchors@theporch.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed; x-avg-checked=avg-ok-34656AE6  
Message-Id: <20070401191220.D5F1E187A4C@srvr1.theporch.com>

At 11:58 AM 4/1/2007, JAMES HANLON wrote:

>John,  
>  
>When you acquire the NC-240D, try to get its speaker with it. I'm  
>pretty sure that the NC-240D is like the other members of the NC-100  
>family in that it uses an electrodynamic speaker

Good advice, for the wrong reason. The NC-240D used a permanent magnet speaker, but the audio output transformer is located in the speaker cabinet, rather than on the radio chassis. The original NC-2-40 had room on the chassis for two audio transformers, because



it used an external doghouse power supply. The 240D managed to cram the power supply onto the main chassis, but didn't have room left for the push-pull audio output transformer.

73,  
Chuck N7RHU

--  
No virus found in this outgoing message.  
Checked by AVG Free Edition.  
Version: 7.5.446 / Virus Database: 268.18.24/741 - Release Date: 3/31/2007 8:54 PM

-----  
Message-ID: <BAY110-DAV3BF376F65E6607A3B4482A0610@phx.gbl>  
From: "JAMES HANLON" <knjhanlon@msn.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: "boatanchors" <boatanchors@theporch.com>  
Subject: Re: National NC-240D  
Date: Sun, 1 Apr 2007 13:15:47 -0600  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="-----=\_NextPart\_000\_0089\_01C7745F.DC8BC0D0"

This is a multi-part message in MIME format.

-----=\_NextPart\_000\_0089\_01C7745F.DC8BC0D0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Chuck,

It's very interesting that the original 240 used a external power = supply. I have the NC-200 which is the pre-war version of the '240, and = it has an internal power supply like the older NC-100's do. It also = uses the electrodynamic speaker.

Jim

----- Original Message -----=20  
From: Chuck McGregor<mailto:cbmcg@comcast.net>=20  
To: knjhanlon@msn.com<mailto:knjhanlon@msn.com> ; Old Tube =  
Radios<mailto:boatanchors@theporch.com>=20  
Cc: boatanchors<mailto:boatanchors@theporch.com>=20  
Sent: Sunday, April 01, 2007 1:12 PM  
Subject: Re: National NC-240D

At 11:58 AM 4/1/2007, JAMES HANLON wrote:

>John,

>

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the power supply onto the main chassis, but didn't have room left for=20  
the push-pull audio output transformer.

73,

Chuck N7RHU

--=20

No virus found in this outgoing message.

Checked by AVG Free Edition.

Version: 7.5.446 / Virus Database: 268.18.24/741 - Release Date: =  
3/31/2007 8:54 PM

-----=\_NextPart\_000\_0089\_01C7745F.DC8BC0D0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

```
* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
*      This post contains a forbidden message format      *
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* * * * *
```

-----=\_NextPart\_000\_0089\_01C7745F.DC8BC0D0--

-----  
Message-ID: <380-22007401191645140@earthlink.net>

From: "Art Lebermann" <artleb@earthlink.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: RE: FS: Unusual RME Receiver

Date: Sun, 1 Apr 2007 12:16:45 -0700  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII

John....

This is the RME model 70, introduced in 1939 to replace the model 69. Both the model 69 and model 70 were available with the preselector mounted in the same cabinet with the receiver.

73,  
Art Lebermann  
W6REQ

> [Original Message]  
> From: John Poulton <jp@cs.unc.edu>  
> To: Old Tube Radios <boatanchors@theporch.com>  
> Date: 4/1/2007 11:27:41 AM  
> Subject: FS: Unusual RME Receiver  
>  
> I have an unusual RME receiver for sale. It's a  
> very wide radio, perhaps 30" or so, and it appears to be  
> a repackaging of a standard RME radio along with  
> a preselector. There are pictures of the rig at:  
>  
> [http://www.jptronics.org/RME\\_receiver](http://www.jptronics.org/RME_receiver)  
>  
> The pix are large-ish, so be patient.  
>  
> If you're interested in adding the radio to your collection,  
> send me mail off-list. Would like to get \$300 + shipping  
> for it (what I have in it). Delivery to Dayton..  
>  
> I'd be interested in any information you might have about  
> this rig as well.  
>  
> 73, John K4OZY  
>  
> --  
>

-----  
Mime-Version: 1.0  
Message-Id: <p06240809c235c0592beb@[192.168.1.2]>  
Date: Sun, 1 Apr 2007 13:03:33 -0700  
To: Old Tube Radios <boatanchors@theporch.com>

From: Scott Robinson <spr@earthlink.net>  
Subject: RE: FS: Unusual RME Receiver  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Art,

With a separate pre-selector, I would expect two tuning dials, but this's has \*three\*. I don't get it...

/scott

At 12:16 PM -0700 4/1/07, Art Lebermann wrote:

>John....

>

>This is the RME model 70, introduced in 1939 to replace the model 69. Both  
>the model 69 and model 70 were available with the preselector mounted in  
>the same cabinet with the receiver.

>

>73,

>Art Lebermann

>W6REQ

>

>

>

>> [Original Message]

>> From: John Poulton <jp@cs.unc.edu>

>> To: Old Tube Radios <boatanchors@theporch.com>

>> Date: 4/1/2007 11:27:41 AM

>> Subject: FS: Unusual RME Receiver

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>>

>> 73, John K4OZY

>>

>> --  
>>

-----  
Message-Id: <6.2.1.2.2.20070401170739.02f5c200@pop-server.nc.rr.com>  
Date: Sun, 01 Apr 2007 17:08:05 -0300  
To: Old Tube Radios <boatanchors@theporch.com>  
From: john <johnmb@nc.rr.com>  
Subject: RE: FS: Unusual RME Receiver  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Main tuning, bandspread and Preselect.... I think!

John K5M0

At 05:03 PM 4/1/2007, Scott Robinson wrote:

>Art,

>

>With a separate pre-selector, I would expect two tuning dials, but this's  
>has \*three\*. I don't get it...

>

>/scott

>

>At 12:16 PM -0700 4/1/07, Art Lebermann wrote:

>>John....

>>

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>>the model 69 and model 70 were available with the preselector mounted in  
>>the same cabinet with the receiver.

>>

>>73,

>>Art Lebermann

>>W6REQ

>>

>>

>>

>>> [Original Message]

>>> From: John Poulton <jp@cs.unc.edu>

>>> To: Old Tube Radios <boatanchors@theporch.com>

>>> Date: 4/1/2007 11:27:41 AM

>>> Subject: FS: Unusual RME Receiver

>>>

>>> I have an unusual RME receiver for sale. It's a  
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>>> this rig as well.  
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>>> 73, John K4OZY  
>>>  
>>> --  
>  
>  
>--  
>No virus found in this incoming message.  
>Checked by AVG Free Edition.  
>Version: 7.5.446 / Virus Database: 268.18.24/741 - Release Date: 3/31/2007  
>8:54 PM

-----  
Date: Sun, 01 Apr 2007 16:32:34 -0400  
From: "Edward J White" <wa3bzt@verizon.net>  
Subject: Spectrum Display Unit  
To: Old Tube Radios <boatanchors@theporch.com>  
Message-id: <006001c7749c\$e3745280\$6401a8c0@wa3bzt>  
MIME-version: 1.0  
Content-type: text/plain; format=flowed; charset=iso-8859-1; reply-type=original  
Content-transfer-encoding: 7bit

Hi Gang:  
I have a spectrum Display Unit General Dynamics SC744A  
Does anybody have any info on this unit.  
What was it used with.  
Ed  
WA3BZT

-----  
From: "Gerry" <w1id@comcast.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: How Much Vacuum in "Vacuum Tubes?"  
Date: Sun, 1 Apr 2007 16:37:59 -0400  
Message-ID: <000001c7749d\$a69cf460\$6501a8c0@thighmaster>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="us-ascii"

Content-Transfer-Encoding: quoted-printable

The creation, measurement, and maintenance of vacuum is a highly specialized science of which much has been written. However, I remember reading a few articles long ago where an individual created his own vacuum tube using what we would call rather primitive tools today. I would assume that the vacuum wasn't that good since I also read tales of very short life. One homebrew tube I saw was nothing more than a glass tube with a couple of rubber stoppers. The builders didn't seem too worried about characterizing the device as they just wanted to get on the air and make as many QSO's as possible before failure. If you made such an attempt today you would no doubt need equipment to characterize the device. There is no telling where one would obtain the materials for such a project or how long the device would last! Some years ago I worked for a company that manufactured vacuum measurement sensors. They had three types of vacuum pumps running 24/7 to create and maintain as perfect a vacuum as possible. In the event of failure of the vacuum, it took several days to start up the whole system in the event of loss of vacuum. There were vacuum pipes all over the building and they became contaminated with loss of vacuum and had to be "purged" before restarting. Quite a headache. There was a rough mechanical vacuum pump with filters to trap oil and impurities. This was followed by a turbo molecular pump spinning at extremely high RPM. I seem to remember roughly 26,000 RPM! Whoa! It was a stack of blades with decreasing angles of pitch from top to bottom. Then there was an Ion Gauge which is very interesting for lovers of vacuum tubes. Electrically it looked like a directly heated triode with around +150 volts on the grid and -30 volts on the plate. The plate was a collector for whatever air molecules remained in the system.=20

-----Original Message-----

From: owner-boatanchors@theporch.com =  
[mailto:owner-boatanchors@theporch.com]  
On Behalf Of Jim Hill  
Sent: Sunday, April 01, 2007 1:33 PM  
To: Old Tube Radios  
Subject: Re: How Much Vacuum in "Vacuum Tubes?"

I used a mercury diffusion pump many years ago when we were setting up an overseas standards lab. It was an interesting concept - mercury was heated and jets of mercury vapor "blew" downward, taking molecules of the gas being removed with them. Liquid nitrogen was used to condense the mercury vapor, and a mechanical "roughing" pump removed the gas. That's a pretty poor description, so I Googled diffusion pumps, and <http://www.2spi.com/catalog/vac/santovac-5-diffusion-pump-fluid-technical-per.html> gives a much better description. Notice diffusion pumps are still around; they just don't use mercury any more.

Since there are few gas molecules at high vacuums, large diameter tubing is used. I wonder how vacuum tubes are connected to the vacuum system, particularly in automated production lines.  
Jim

At 12:01 PM 3/28/2007, you wrote:  
>"Vacuum" is a relative term.  
>Just how much "vacuum" does one need to make a vacuum tube work?  
>Our valves can't be at perfect vacuum; no way that thin glass  
>would hold up. So is it possible for an amatuer to create a  
>vacuum pump and chamber good enough for tubes?  
>Kinda thinking about how to recover rare or expensive  
>tubes that have gone gassy or low-em.  
>I have engraved-base, big-globe types 80 and 50  
>that would look soooo good in a classic '20s homebrew,  
>if only.....

-----  
Message-ID: <380-22007401204027203@earthlink.net>  
From: "Art Lebermann" <artleb@earthlink.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: FS: Unusual RME Receiver  
Date: Sun, 1 Apr 2007 13:40:27 -0700  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII



Scott....

The RME model 69 and model 70 both have a main tuning dial and a bandspread dial. The preselector adds a third dial.

I have both models in my collection, with the external preselectors. The "single cabinet" version is more rare.

ART

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> [Original Message]
> From: Scott Robinson <spr@earthlink.net>
> To: Old Tube Radios <boatanchors@theporch.com>
> Date: 4/1/2007 1:04:08 PM
> Subject: RE: FS: Unusual RME Receiver
>
> Art,
>
> With a separate pre-selector, I would expect two tuning dials, but
> this's has *three*. I don't get it...
>
> /scott
>
> At 12:16 PM -0700 4/1/07, Art Lebermann wrote:
> >John....
> >
> >This is the RME model 70, introduced in 1939 to replace the model 69.
Both
> >the model 69 and model 70 were available with the preselector mounted in
> >the same cabinet with the receiver.
> >
> >73,
> >Art Lebermann
> >W6REQ
> >
> >
> >> [Original Message]
> >> From: John Poulton <jp@cs.unc.edu>
> >> To: Old Tube Radios <boatanchors@theporch.com>
> >> Date: 4/1/2007 11:27:41 AM
> >> Subject: FS: Unusual RME Receiver
> >>
> >> I have an unusual RME receiver for sale. It's a
> >> very wide radio, perhaps 30" or so, and it appears to be
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> >> a repackaging of a standard RME radio along with  
> >> a preselector. There are pictures of the rig at:  
> >>  
> >> [http://www.jptronics.org/RME\\_receiver](http://www.jptronics.org/RME_receiver)  
> >>  
> >> The pix are large-ish, so be patient.  
> >>  
> >> If you're interested in adding the radio to your collection,  
> >> send me mail off-list. Would like to get \$300 + shipping  
> >> for it (what I have in it). Delivery to Dayton..  
> >>  
> >> I'd be interested in any information you might have about  
> >> this rig as well.  
> >>  
> >> 73, John K4OZY  
> >>  
> >> --  
> >>  
>

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End of BOATANCHORS Digest 4035  
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